



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,588	03/19/2004	Kenji Koyama	1529.70167	7303

7590 05/31/2005

Patrick G. Burns, Esq.
GREER, BURNS & CRAIN, LTD.
Suite 2500
300 South Wacker Drive
Chicago, IL 60606

EXAMINER

FIGUEROA, NATALIA

ART UNIT

PAPER NUMBER

2651

DATE MAILED: 05/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/804,588

Applicant(s)

KOYAMA, KENJI

Examiner

Natalia Figueroa

Art Unit

2651

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 March 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 03/19/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 19 March 2004 (03/19/2004) is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Ohmori et al (US Pub. No. US 2002/006745 A1), hereinafter Ohmori.

RE claim 1, Ohmori discloses a disk control unit for controlling a disk drive in accordance with a transfer command received from a host device (figs. 1 and 4, [0004] and [0040-0041]), said disk control unit comprising, a clock control part that sets an operation clock used by said disk drive based on said transfer command ([0009]); and a disk control part that controls writing and reading based on said transfer command (fig. 1 and [0040-0041]).

RE claim 2, Ohmori further discloses that said transfer command includes an instruction for writing or reading data, a transfer mode, and a transfer rate (fig. 4 and [0057]).

RE claim 3, Ohmori further discloses that said clock control part selects the value of a minimum operation clock required to execute said transfer command (or optimizing the transfer rate, [0009] and [0048]).

RE claim 4, Ohmori discloses a disk drive for writing and reading data in accordance with a transfer command received from a host device (figs. 1 and 4, [0004] and [0040-0041]), said disk drive comprising a disk control unit as set forth in claim 1 (figs. 1 and 4, [0009] and [0040-0041]); an interface that inputs and outputs data from and to said host device (fig. 1 and [0036]); a memory that temporarily holds the data (fig. 1 and [0035]); an operation clock generation part that changes an operation clock used by said disk control unit ([0009]), said interface and said memory based on a setting of said operation clock (fig. 1 and [0035-0036]); a recording medium that holds data ([0037]); a read and write part that writes data into said recording medium or reads data from said recording medium ([0038]); and a mechanism that controls the position of writing or reading in said recording medium ([0038-0040]).

RE claim 5, Ohmori discloses a disk control method for controlling a disk drive in accordance with a transfer command received from a host device (figs. 1 and 4, [0004] and [0040-0041]), said disk control method comprising the steps of setting an operation clock used by said disk drive based on said transfer command ([0009]); and controlling writing and reading based on said transfer command (fig. 1 and [0040-0041]).

RE claim 6, Ohmori further discloses that said transfer command includes an instruction for writing or reading data, a transfer mode, and a transfer rate (fig. 4 and [0057]).

Re claim 7, Ohmori further discloses that said setting is to select the value of a minimum operation clock required to execute said transfer command (or optimizing the transfer rate, [0009] and [0048]).

RE claim 8, Ohmori discloses a disk control program for making a computer implement a disk control method for controlling a disk drive in accordance with a transfer command received from a host device (figs. 1 and 4, [0004] and [0040-0041]), said disk control program being operable to make said computer perform the steps comprising setting an operation clock used by said disk drive based on said transfer command ([0009]); and controlling writing and reading based on said transfer command (fig. 1 and [0040-0041]).

RE claim 9, Ohmori further discloses that said transfer command include an instruction for writing or reading data, a transfer mode, and a transfer rate (fig. 4 and [0057]).

RE claim 10, Ohmori further discloses that said setting is to select the value of a minimum operation clock required to execute said transfer command (or optimizing the transfer rate, [0009] and [0048]).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following documents are cited to further show the state of the art with respect to disk control.

- a) Holsinger (USPN RE37,818 E): Discloses controlling a disk data storage.
- b) Yamashita et al (USPN 6,411,457): Discloses a recording/reproducing apparatus.
- c) Kumakawa et al (JP359114660A): Discloses and HDC controller.
- d) Koichi (JP406149714A): Discloses a control system.

Art Unit: 2651

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalia Figueroa whose telephone number is (571) 272-7554.


The examiner can normally be reached on Monday - Thursday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

~~AAA~~

NFM


DAVID HUDSPETH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600